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NOTICE OF ALLOWANCE AND FEE(S) DUE

	7590 01/	15/2002					
Leo J Aubel					EXAMINER		
111 Rivershire Lane Lincolnshire, IL 60069					GEMMELL, ELIZABETH M		
					ART UNIT	CLASS-SUBCLASS	
					2882	378-064000	
				DATE	MAILED: 01/15/2002		
APPLICATION NO.	FILING DAT	TE .	FIRST NAMED INVENTO	R	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/709,896	11/13/200	0	Gueorgui Gueorguiev	· · ·		3631	
TITLE OF INVENTION: IRRADIATION SYSTEM, AND METHOD USING X-RAY AND GAMMA-RAY REFLECTOR							
ŤQTAL CLAIMS	APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
12	nonprovisional	YES	\$640	\$0	\$640	04/15/2002	

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

B. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

Applicant claims SMALL ENTITY status.
 See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and mail this form, together with applicable fee(s), to:

Box ISSUE FEE

Assistant Commissioner for Patents

Washington, D.C. 20231

MAILING INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed

where appropriate. All fundicated unless corrected maintenance fee notifica	ed below or directed of	ncluding the Patent, advance therwise in Block 1, by (a	ce orders and notification specifying a new cor	n of maintenance fees will respondence address; and	be mailed to the current for (b) indicating a sepa	t correspondence address a trate "FEE ADDRESS" fo
	ENCE ADDRESS (Note: Legit	oly mark-up with any corrections of 5/2002	·	Note: The certificate of mailings of the Fee(s) Tr other accompanying pape or formal drawing, must h	ers. Each additional pap	ly be used for domestic te cannot be used for any er, such as an assignment f mailing.
111 Rivershire I Lincolnshire, IL				I hereby certify that this United States Postal Servi envelope addressed to t indicated below.	Certificate of Mailing Fee(s) Transmittal is ice with sufficient postag he Box Issue Fee add	being deposited with the ge for first class mail in an dress above on the date
						(Depositor's name
						(Signature
			L			(Date
APPLICATION NO.	FILING DATE	<u> </u>	FIRST NAMED INVENT	OR AT	TORNEY DOCKET NO.	CONFIRMATION NO.
09/709,896	11/13/2000		Gueorgui Gueorguie			3631
TOTAL CLAIMS	APPLN. TYPE	SMALL ENTITY YES	ISSUE FEE \$640	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE 04/15/2002
					\$ 0.10	0 11 13 12 00 2
	MINER	ART UNIT	CLASS-SUBCLA			
GEMMELL,	ELIZABETH M	2882	378-064000			
CFR 1.363). Use of PT but not required. Change of corresponded corres	O form(s) and Custome ondence address (or Cha B/122) attached.	tion of "Fee Address" (37 ir Number are recommende unge of Correspondence " Indication form	the names of up or agents OR, a single firm (hav attorney or ager	on the patent front page, I to 3 registered patent att Iternatively, (2) the naming as a member a regnt) and the names of up attorneys or agents. If no e will be printed.	orneys e of a istered o to 2	·
PLEASE NOTE: Unles	ss an assignee is identif ted to the USPTO or is	TA TO BE PRINTED ON The field below, no assignee data being submitted under septing (B	ta will appear on the pa arate cover. Completion	itent Inclusion of assigner	stitute for filing an assig	e when an assignment has nment.
Please check the appropr	iate assignee category o	or categories (will not be pr	inted on the patent)	individual corpo	ration or other private gi	roup entity 🚨 governmen
4a. The following fee(s)	are enclosed:	46	. Payment of Fee(s):	,		
☐ Issue Fee				of the fee(s) is enclosed.		
□ Publication Fee		_		Form PTO-2038 is attach		1:4
☐ Advance Order - # o	of Copies	De	posit Account Number	ereby authorized by charge (enclo	se an extra copy of this	form).
The COMMISSIONER (application identified abo	OF PATENTS AND TR	RADEMARKS is requested	to apply the Issue Fee	and Publication Fee (if any	y) or to re-apply any pre	viously paid issue fee to th
(Authorized Signature)		(Date)		-		
other than the applicar interest as shown by the Burden Hour Statement	nt; a registered attorned to records of the United to the	f required) will not be ac y or agent; or the assign States Patent and Trademan d to take 0.2 hours to com	k Office.			
depending on the needs to complete this form s and Trademark Office, FORMS TO THIS A Assistant Commissione	of the individual case, should be sent to the C Washington, D.C. 202 DDRESS. SEND FEE r for Patents, Washington	Any comments on the ame thief Information Officer, 31. DO NOT SEND FEES S AND THIS FORM T on, D.C. 20231	United States Patent S OR COMPLETED O: Box Issue Fee,			

TRANSMIT THIS FORM WITH FEE(S)

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/709,896	11/13/2000	Gueorgui Gueorguiev		3631	
7590 01/15/2002		. [EXAMINER		
Leo J Aubel			GEMMELL, ELIZABETH M		
Lincolnshire, IL 600		. [ART UNIT	PAPER NUMBER	
			2882		
		•	DATE MAILED: 01/15/2002		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

	Application No. Applicant(s)					
	09/709,896	GUEORGUIEV, GU	EORGUI			
Notice of Allowability	Examiner	Art Unit				
	Beth Gemmell	2882				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.						
1. This communication is responsive to <u>10-27-01</u> .						
2. The allowed claim(s) is/are <u>1-12</u> .						
 3. The drawings filed on 11-13-00 are accepted by the Exami 4. Acknowledgment is made of a claim for foreign priority und a) All b) Some* c) None of the: 						
1. Certified copies of the priority documents have	been received.					
2. Certified copies of the priority documents have	been received in Application No	D				
3. Copies of the certified copies of the priority doc International Bureau (PCT Rule 17.2(a)).	euments have been received in t	this national stage applica	tion from the			
* Certified copies not received:	der 25 11 5 C 5 110(a) (to a pr	visional application)				
5. Acknowledgment is made of a claim for domestic priority ur (a) The translation of the foreign language provisional a		ovisional application).				
6. Acknowledgment is made of a claim for domestic priority un	•	1				
O Acknowledgment is made of a claim for domestic phonty of	14C1 00 0.0.0. 33 120 4114/01 12					
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of t						
7. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.						
B. ☐ CORRECTED DRAWINGS must be submitted. (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) ☐ hereto or 2) ☐ to Paper No						
 (b) ☐ including changes required by the proposed drawing correction filed, which has been approved by the Examiner. (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No 						
(c) Including changes required by the attached Examiner	s Amenament / Comment or in t	the Office action of Paper	NO			
Identifying indicia such as the application number (see 37 CFR 1. of each sheet. The drawings should be filed as a separate paper						
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s)						
1 ☐ Notice of References Cited (PTO-892) 3 ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 5 ☐ Information Disclosure Statements (PTO-1449), Paper No 7 ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	4☐ Interview Su 6☐ Examiner's A	ormal Patent Application (mmary (PTO-413), Paper Amendment/Comment Statement of Reasons for	No			

Application/Control Number: 09/709,896

Art Unit: 2882

DETAILED ACTION

It is acknowledged that all corrections were made and submitted on October 27, 2001.

Allowable Subject Matter .

Claims 1-12 are allowed.

The following is an examiner's statement of reasons for allowance:

Weilt et al., Moses, Gutman, Lanotte, and Williams et al. disclose a system, method or apparatus for the irradiation of a product. All utilize a radiation source to irradiate a product but fail to include a reflector in the system. One of ordinary skill in the art would not have been motivated to modify these teachings to include a radiation reflector comprised of a low Z, high density material, positioned to receive and reflect back the penetrating and exiting radiation from the product to provide additional irradiation energy to the product.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Beth Gemmell whose telephone number is (703) 305-1937. The examiner can normally be reached on Monday-Thursday 6:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (703) 305-3492. The fax phone numbers for

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Art Unit: 2882

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the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

emg January 14, 2002 ROBERT H. KIM
PURE THIS CHY PATENT EXAMINER
NECHNOLOGY CENTER 2800